



LEROY D. BACA, SHERIFF

County of Los Angeles
Sheriff's Department Headquarters
4700 Ramona Boulevard
Monterey Park, California 91754-2169



June 17, 2013

Mr. William T Fujioka
Chief Executive Officer
713 Kenneth Hahn Hall of Administration
Los Angeles, California 90012

Dear Mr. Fujioka:

**FUNDING REQUEST FOR CLOSED CIRCUIT
TELEVISION SYSTEM EXPANSION**

On October 18, 2011, the Board established the Citizen's Commission on Jail Violence (CCJV) with the mandate that the Jail Commissioners conduct a review of the nature, depth, and cause of the problem of inappropriate deputy use of force in the jails, and to recommend corrective action as necessary. Further the task of the Commission was to restore public confidence in the constitutional operation of our jails. In September 2012, the CCJV released their final report and made 63 recommendations. I agree with their recommendations and am working toward implementing each of them.

Recommendation 7.15 states that the use of lapel cameras as an investigative tool should be broadened. The Department conducted a comprehensive study into lapel cameras and delivered the subsequent report from that study to you on November 2, 2012. The study estimated the cost of outfitting every deputy and custody assistant with a personal video recording device, to be used during the entirety of their shift, and storing the video from those devices on a Department server, to be approximately \$63.3 million. Other lower cost options were also presented, including outfitting just supervisors for high risk escorts and operations.

The technology in this area is rapidly changing. The Department believes that the risk of investing in a technology that is rapidly evolving would likely mean that whatever product is purchased may be outdated before it is even deployed. While having supervisors carry video cameras with them at all times would be desirable, the Department believes that expanding the current Closed Circuit Television (CCTV) system to all facilities would prove to be a better use of resources at this time. The

A Tradition of Service

Department would like to revisit the portable camera solutions in the future when the technology has matured, standards have been established, and prices have dropped.

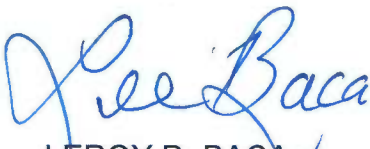
The current CCTV system has proven invaluable in documenting force incidents at Men's Central Jail, Twin Towers Correctional Facility, and the Inmate Reception Center. Among the successes of the system are:

- It has provided evidence to
 - refute false claims made by inmates
 - support legitimate claims made by inmates
 - investigate and document uses of force
 - support prosecution by the District Attorney in crimes committed by inmates against other inmates which would never have been filed if not for the video evidence
- It has provided invaluable training material in debriefing tactical operations and uses of force
- It has enhanced transparency for the public and other outside entities

The Department recently conducted a study to determine the cost of enhancing the system at MCJ, TTCF, and IRC, as well as to expand it to all of the other custody facilities. The total estimated cost for this expansion is \$26.7 million. The detailed breakdown of those costs was sent to your office on May 8, 2013 (see attached).

I am requesting that you make additional funds available to expand the CCTV system. Should you have any questions, please contact Commander Christy Guyovich at (323) 893-5004.

Sincerely,


LEROY D. BACA
SHERIFF

Status of Closed Circuit Television System Custody Facilities

May 6, 2013

The purpose for this document is to outline the current status of Closed Circuit Television (CCTV) systems in the custody facilities and provide an estimate to upgrade them to a modern, high-definition, digital CCTV system using the same format across all facilities to allow video to be recorded, viewed, processed, and stored in a consistent manner. For CCTV, the custody facilities were separated into “campuses” as facilities that are geographically near each other can share a unified storage system, reducing costs per facility. They are separated as follows:

- Twin Towers Complex: Men’s Central Jail, the Twin Towers Correctional Facility, and the Inmate Reception Center
- Pitchess Detention Center (PDC): PDC-East, PDC-North, PDC-South, North County Correctional Facility, and an option to include the Vocational Shops
- Los Angeles County Medical Center Jail Ward (LCMC)
- Century Regional Detention Facility (CRDF)
- Mira Loma Detention Center (MLDC)

Current Status

Currently, a comprehensive Closed Circuit Television System (CCTV) has been installed to support the facilities within the Twin Towers Complex – including Men’s Central Jail (MCJ), Twin Towers Correctional Facility (TTCF), and Inmate Reception Center (IRC). This system includes 1,559 cameras and supports 1 year of High Definition (HD – 720p) video at 10 frames per second. This system was completed last year. After using the system, the facilities in the complex have identified a need for an additional 354 cameras – 238 at MCJ, 96 at TTCF, and 20 at IRC.

The Pitchess Detention Center (PDC) facilities – including the North County Correctional Facility (NCCF), PDC-East Facility, PDC-North Facility, and PDC-South Facility – are supported by a variety of legacy systems. These range from an older high-definition system at PDC-East to even older systems. There are no cameras in the Vocational Shops. All of the systems need to be replaced. An estimated total of 1,365 cameras will be needed for the facilities, plus an additional 104 cameras for the Vocational Shops – all included, a total of 1,469 cameras.

The Century Regional Detention Facility (CRDF) is supported by an old analog system. It needs to be replaced - an estimated total of 491 cameras will be needed.

The Los Angeles Medical Center Jail Ward is supported by an obsolete CCTV system. It needs to be replaced – an estimated total of 67 cameras will be needed for the jail ward. Since treatment areas outside of the jail ward are used by non-inmates, those areas cannot be monitored using this system due to patient privacy issues.

The Mira Loma Detention Center (MLDC) is supported by an old analog system. It needs to be replaced – an estimated total of 120 cameras will be needed.

General Structure of Digital CCTV Systems Being Installed

The new CCTV systems being installed are digital, high-definition (720p), recorded at 10 frames per second, and stored for 1 year. The cameras are wide-angle, fixed zoom, and low-light capable. This allows the cameras to cover a wide area, yet allows the operator to digitally zoom on an image to see more detail. In some areas, pan-tilt-zoom (PTZ) or other specialty cameras have been installed to meet specific needs.

In general, a current system includes:

- Cameras and protective housings
- Cabling to power to the camera and stream video to the storage system
- Network components to transmit the video to a central storage system, to monitors, and to other components purposed to hold extracted video
- A storage system to hold the video – including archive servers and disk drives
- Data center “hardening” to properly support the video storage system – including temperature and humidity control, alerting systems, power supply, physical plant security, and redundant infrastructure systems
- Software to control video storage and retrieval
- Directory servers to allow users to look up cameras and view adjacent areas
- Viewing stations to allow users to view, search, retrieve, and export video
- Training for the users

Description of Estimated Costs

Separate costs estimates have been prepared for each “campus” as each system is independent of the others. Costs include:

- Cameras: In general, high-definition, wide-angle, low-light capable. The cost includes software licensing needed to operate the cameras and record video. Specialty cameras may cost more.
- Network Upgrades: Cost for network components to stream video to the storage system. In most cases, this includes power to operate the camera. If separate power is required, it is reflected in the Physical Plant costs.
- Storage System: The system to hold the stored video. It includes archive servers, distribution servers, hard disks, and other components.
- Directory Servers: Manage the “directory” of cameras, which allows a user to view a particular camera, identify and view nearby cameras, and extract video from a camera.
- Viewing Stations: Specialized computer stations that allow viewing of single or multiple cameras, zooming and panning within a digital image, presentation of nearby cameras, viewing of archived video using search tools, and extraction of video. Facilities may also add large screen monitors and view limited video on regular computers, so relatively few of these stations are needed per facility.
- Physical Plant: This includes physical plant hardening, additional cooling and power for the video storage system, cabling, and in some cases camera mounting.
- Contingency: During and after installation, each facility realized more cameras would be needed in certain areas, cameras would have to be moved, or other changes would have to be completed. To cover these and other changes, a 10% contingency has been added.

Estimated Costs – Summary

The following outlines a summary of the overall cost to install or upgrade CCTV at each “campus.” Note that costs can vary widely depending on the facility, its layout, and the specific needs of the facility. Please refer to subsequent pages for a more detailed breakdown of costs for each area.

Equipment and Installation Costs

Location	Description	Estimated Cost
Twin Towers Complex	Add a total of 354 cameras to: <ul style="list-style-type: none"> • Men’s Central Jail (238 additional cameras) • Twin Towers Correction Facility (96 additional cameras) • Inmate Reception Center (20 additional cameras) 	\$1,515,379
Pitchess Detention Center**	Install 1,365 cameras at: <ul style="list-style-type: none"> • North County Correctional Facility • PDC-East • PDC-North • PDC-South 	\$15,015,000
	Install 104 cameras at the Vocational Shops, including the Laundry. Note that this is an additional cost.	\$902,891
Century Regional Detention Facility	Install 491 cameras at the Century Regional Detention Facility.	\$5,401,000
LCMC Jail Ward	Install 67 cameras within the jail ward. Note that inmates may be housed, moved, or treated in other parts of the hospital – these are not included as they are not exclusively used by inmates.	\$595,659
Mira Loma Detention Center	Install 120 cameras at the Mira Loma Detention Center.	\$1,135,809
Grand Total for All Areas		\$24,565,738

**** Note:**

With all cameras are installed at Pitchess Detention Center (a total of 1,469 cameras), the video storage system will be close to its maximum capacity. If the overall system is increased beyond this maximum, the physical plant will have to be expanded and an additional video storage system will have to be added. An outline of estimated potential additional costs is included in the Pitchess Detention Center detail pages following, but is not included in this summary

Personnel Costs – Annual

Facilities Services Bureau will require additional personnel to maintain equipment at some facilities.

Location	Description	Estimated Cost
Twin Towers Complex	(No additional personnel needed)	\$0
Pitchess Detention Center	2 additional Audio, Video, and Security Systems Technicians required. (S&EB = \$102,446 annually)	\$204,892
PDC Vocational Shops	(Included in Pitchess Detention Center)	\$0
Century Regional Detention Facility	2 additional Audio, Video, and Security Systems Technicians required. (S&EB = \$102,446 annually)	\$204,892
LCMC Jail Ward	(No additional personnel needed)	\$0
Mira Loma Detention Center	1 additional Audio, Video, and Security Systems Technicians required. (S&EB = \$102,446 annually)	\$102,446
Grand Total – Annual Personnel Costs		\$512,230

Twin Towers Complex

The Twin Towers Complex includes the Men's Central Jail (MCJ), the Twin Towers Correctional Facility (TTCF), and the Inmate Reception Center (IRC). Although a CCTV system was completed in late-2012, the facilities have identified areas that require greater coverage. This cost estimates aggregates these needs.

Item	Description	Estimated Costs
Cameras	354 high-definition, wide-angle, low light capable cameras plus per-camera licensing costs (\$1,200 per camera) <ul style="list-style-type: none"> • Men's Central Jail (238 additional cameras) • Twin Towers Correction Facility (96 additional cameras) • Inmate Reception Center (20 additional cameras) 	\$424,800
Network Upgrades	Network upgrades to stream video to the storage system	\$100,000
Storage System	DDN storage system to hold video for 1 year at 10fps	\$597,817
Directory Servers	1 additional directory server would be needed	\$10,000
Viewing Stations	15 additional needed (\$9,000 each)	\$135,000
Data Sub-Systems Total		\$1,267,617
Physical Plant**	Including physical plant hardening, cabling, and camera mounting.	\$110,000
Physical Plant Sub-Total		\$110,000
Contingency	10 % contingency for unanticipated expenses	\$137,762
Grand Total		\$1,515,379

Personnel Costs – Annual

Location	Description	Estimated Cost
Twin Towers Complex	(None needed)	\$0

*****Note:***

Physical plant upgrades for the Twin Towers Complex are low as hardening efforts were completed during the initial CCTV installation in 2012.

Pitchess Detention Center

Two general areas have been identified at PDC for potential CCTV: the facilities and their immediate perimeter, and the vocation shops where inmates are taught outside the facilities (with the exception of farming and nursery areas).

PDC Facilities: PDC-East, PDC-North, PDC-South, NCCF

The Pitchess Detention Center campus includes four physically separated facilities and requires a more complex network architecture than more centralized facilities. The costs for the network portion of this estimate will be higher than the other facilities. The overall estimated cost for a 1,365 camera installation is:

Item	Description	Estimated Costs
Cameras	1,365 high-definition, wide-angle, low light capable cameras plus per-camera licensing costs (\$1,200 per camera)	\$1,638,000
Network Upgrades	Network upgrades to stream video to the storage system	\$3,700,000
Storage System	DDN storage system to hold video for 1 year at 10fps	\$1,800,000
Directory Servers	One is already installed at PDC, a second would be needed	\$10,000
Viewing Stations	18 total (\$9,000 each)	\$162,000
Data Sub-Systems Total		\$7,301,000
Physical Plant	Including physical plant hardening, cabling, and camera mounting.	\$6,349,000
Physical Plant Sub-Total		\$6,349,000
Contingency	10 % contingency for unanticipated expenses	\$1,365,000
Grand Total		\$15,015,000

Personnel Costs – Annual

Location	Description	Estimated Cost
Pitchess Detention Center	2 additional Audio, Video, and Security Systems Technicians required. (S&EB = \$102,446 annually)	\$204,892

PDC Vocational Shops – Additional Cameras

Pitchess Detention Center maintains vocation shops outside the facilities – including pet grooming, bicycle repair, laundry facility, and other areas. Farming and nursery areas were not included as these can be wide-spread and can change locations readily.

Item	Description	Estimated Costs
Cameras	104 high-definition, wide-angle, low light capable cameras plus per-camera licensing costs (\$1,200 per camera)	\$124,800
Network Upgrades	Network upgrades to stream video to the storage system	\$496,010
Storage System	Included in PDC – no additional needed	\$0
Directory Servers	Included in PDC – no additional needed	\$0
Viewing Stations	Included in PDC – no additional viewing stations needed	\$0
Data Sub-Systems Total		\$620,810
Physical Plant	Including physical plant hardening, cabling, and camera mounting.	\$200,000
Physical Plant Sub-Total		\$200,000
Contingency	10 % contingency for unanticipated expenses	\$82,081
Grand Total		\$902,891

Personnel Costs – Annual

Location	Description	Estimated Cost
PDC Vocational Shops	(Included in Pitchess Detention Center)	\$0

PDC – Additional Construction (Contingency)

The maximum capacity for the video storage system is approximately 1,550 cameras. The number of cameras planned for Pitchess Detention Center (including the Vocational Shops) is 1,469 cameras. If, after installation, more cameras are determined to be needed, a second video storage system will have to be installed and the room holding the video storage system will have to be expanded. Following are the estimated costs for increasing the total number of cameras by approximately 400 cameras (bringing the total number of cameras at the Pitchess Detention Center to 1,869). Note that this cost is NOT included in the summary as this is a potential additional cost only.

Item	Description	Estimated Costs
Cameras	400 high-definition, wide-angle, low light capable cameras plus per-camera licensing costs (\$1,200 per camera) <ul style="list-style-type: none"> • Men's Central Jail (238 additional cameras) • Twin Towers Correction Facility (96 additional cameras) • Inmate Reception Center (20 additional cameras) 	\$480,000
Network Upgrades	Network upgrades to stream video to the storage system	\$120,000
Storage System	DDN storage system to hold video for 1 year at 10fps	\$629,130
Directory Servers	1 additional directory server would be needed	\$10,000
Viewing Stations	Viewing stations already included	\$0
Data Sub-Systems Total		\$1,239,130
Physical Plant**	Including physical plant hardening, cabling, and camera mounting.	\$200,000
Physical Plant Sub-Total		\$200,000
Contingency	10 % contingency for unanticipated expenses	\$143,913
Grand Total		\$1,583,043

Century Regional Detention Facility

The Century Regional Detention Facility is a regional intake center and a high security jail. The existing CCTV system only monitors limited areas and lacks the high resolution capability of a modern system. Overall, a 491-camera system will be needed.

Item	Description	Estimated Costs
Cameras	491 high-definition, wide-angle, low light capable cameras plus per-camera licensing costs (\$1,200 per camera)	\$589,200
Network Upgrades	Network upgrades to stream video to the storage system	\$1,132,738
Storage System	DDN storage system to hold video for 1 year at 10fps	\$481,582
Directory Servers	1 Directory Server needed	\$10,000
Viewing Stations	4 needed (\$9,000 each)	\$36,000
Data Sub-Systems Total		\$2,249,520
Physical Plant	Including physical plant hardening, cabling, and camera mounting.	\$2,660,480
Physical Plant Sub-Total		\$2,660,480
Contingency	10 % contingency for unanticipated expenses	\$491,000
Grand Total		\$5,401,000

Personnel Costs – Annual

Location	Description	Estimated Cost
Century Regional Detention Facility	2 additional Audio, Video, and Security Systems Technicians required. (S&EB = \$102,446 annually)	\$204,892

Los Angeles County Medical Center Jail Ward

The Los Angeles County Medical Center Jail Ward (LCMC) is a secured hospital bed area within the Los Angeles County + University of Southern California Medical Center (LAC+USC). Some inmates may receive treatment outside of this area, based on medical need – those areas will not be monitored by video as they are also used to medically treat members of the public.

Item	Description	Estimated Costs
Cameras	67 high-definition, wide-angle, low light capable cameras plus per-camera licensing costs (\$1,200 per camera)	\$80,400
Network Upgrades	Network upgrades to stream video to the storage system	\$105,718
Storage System	DDN storage system to hold video for 1 year at 10fps	\$109,390
Directory Servers	1 Directory Server needed	\$10,000
Viewing Stations	4 needed (\$9,000 each)	\$36,000
Data Sub-Systems Total		\$341,508
Physical Plant	Including physical plant hardening, cabling, and camera mounting.	\$200,000
Physical Plant Sub-Total		\$200,000
Contingency	10 % contingency for unanticipated expenses	\$54,151
Grand Total		\$595,659

Personnel Costs – Annual

Location	Description	Estimated Cost
LCMC Jail Ward	(None needed)	\$0

Mira Loma Detention Center

The Mira Loma Detention Center currently houses a very limited number of inmates. However, plans are being considered to re-populate it. Due to the nature of the facility (open compound and barracks), infrastructure modifications – including CCTV installation – should be completed as part of an overall re-population plan. The following estimate, for a 120-camera system, is based on CCTV being installed concurrently with other infrastructure changes.

Item	Description	Estimated Costs
Cameras	120 high-definition, wide-angle, low light capable cameras plus per-camera licensing costs (\$1,200 per camera)	\$144,000
Network Upgrades	Network upgrades to stream video to the storage system	\$660,655
Storage System	DDN storage system to hold video for 1 year at 10fps	\$142,899
Directory Servers	1 Directory Server needed	\$10,000
Viewing Stations	5 needed (\$9,000 each)	\$45,000
Data Sub-Systems Total		\$1,002,554
Physical Plant	Including physical plant hardening, cabling, and camera mounting.	\$30,000
Physical Plant Sub-Total		\$30,000
Contingency	10 % contingency for unanticipated expenses	\$103,255
Grand Total		\$1,135,809

Personnel Costs – Annual

Location	Description	Estimated Cost
Mira Loma Detention Center	1 additional Audio, Video, and Security Systems Technicians required. (S&EB = \$102,446 annually)	\$102,446